

**40355 Braithwaite, LA
Stolthaven Terminal Facility
Summary of Real-time Air Monitoring Results
September 10, 2012**

This data report discusses real-time air monitoring data collected between September 9th 06:00 and September 10th 06:00 in support of mitigation and remediation operations conducted near Stolthaven’s facility near Braithwaite, LA.

Real-time air monitoring conducted in the work area resulted in reports of 5 detections exceeding the chemical specific action level required for donning of respiratory protection. All workers not present in respiratory protection prior to initiating these tasks were present in respiratory protection during these events until the task was completed, or after air concentrations reached a level below which respiratory protection was required.

Real-time air monitoring for VOCs, LEL, methyl acrylate, and styrene was conducted using stationary AreaRAEs and hand-held instruments such as the MultiRAE, and colorimetric detector tubes. Table 1 and Table 2 display data summaries for AreaRAE and handheld MultiRAE data respectively. Appendix 1 shows incident site maps.

**Table 1
AreaRAE Summary – September 9th 06:00 to September 10th 06:00**

Unit	Analyte	Number of Readings	Number Of Detections	Concentration Range
Unit 1	LEL	5426	0	0.0 – 0.0 %
	VOC	5426	0	0.0 – 0.0 ppm
Unit 2	LEL	5302	0	0.0 – 0.0 %
	VOC	5302	0	0.0 – 0.0 ppm
Unit 3	LEL	5453	0	0.0 – 0.0 %
	VOC	5453	0	0.0 – 0.0 ppm
Unit 4	LEL	5618	0	0.0 – 0.0 %
	VOC	5618	0	0.0 – 0.0 ppm
Unit 9	LEL	5635	0	0.0 – 0.0 %
	VOC	5635	0	0.0 – 0.0 ppm
Unit 11	LEL	5463	0	0.0 – 0.0 %
	VOC	5463	0	0.0 – 0.0 ppm
Unit 12	LEL	5557	275	2.6 – 3.5 %
	VOC	5557	28	0.1 – 0.6 ppm
Unit 13	LEL	5634	0	0.0 – 0.0 %
	VOC	5634	0	0.0 – 0.0 ppm

***Detections may include drift events** - Drift is defined as any interference in the electrochemical sensor’s ability to accurately report the concentration of a chemical in the atmosphere. Humidity and temperature changes throughout the monitoring period are typical sources of drift.

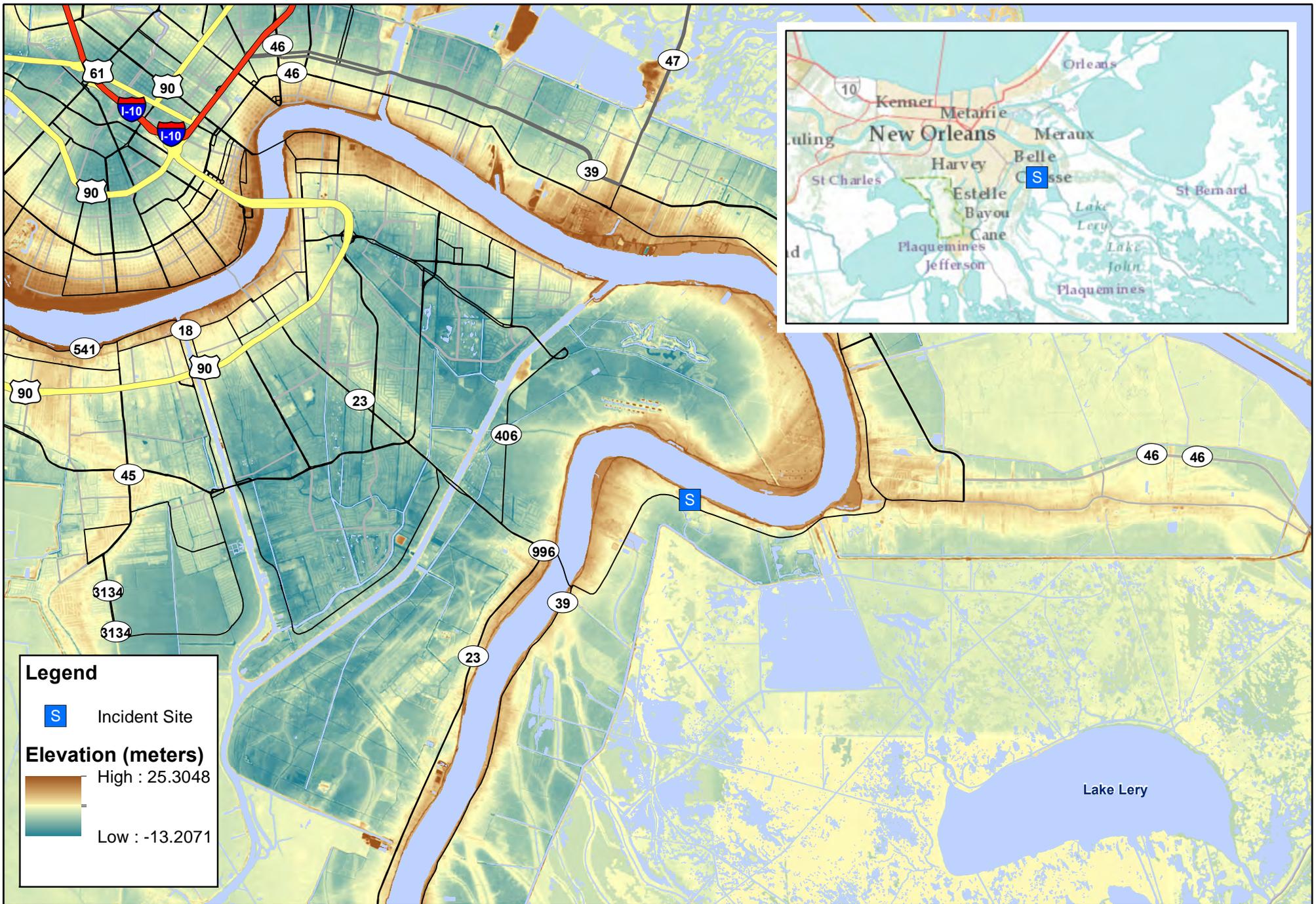
Table 2
Hand-held Real-time Summary – September 9th 06:00 – September 10th 06:00

Community				
Analyte	Number of Readings	Number of Detections	Average Concentration of Detections	Highest Concentration
LEL	219	0	NA	< 1.0 %
VOC	267	0	NA	< 0.1 ppm
Entry Activities				
Analyte	Number of Readings	Number of Detections	Average Concentration of Detections	Highest Concentration
LEL	82	0	NA	< 1.0 %
Methyl Acrylate	1	0	NA	<2.0 ppm
Styrene	1	0	NA	<0.5 ppm
VOC	131	0	NA	<0.1 ppm
Work Area				
Analyte	Number of Readings	Number of Detections	Average Concentration of Detections	Highest Concentration
LEL	148	0	NA	< 1.0 %
VOC	232	5	12.5 ppm	27.2 ppm

NA = not applicable

* In addition to the tabulated real-time data, additional air monitoring for the purpose of worker protection was performed throughout the work area. These data are used for task-specific decision-making, but may not be recorded in the tabulated data represented above.

Appendix 1: Incident Maps



Legend

- S Incident Site

Elevation (meters)

High : 25.3048

Low : -13.2071

**Stolt Haven Facility
Location**

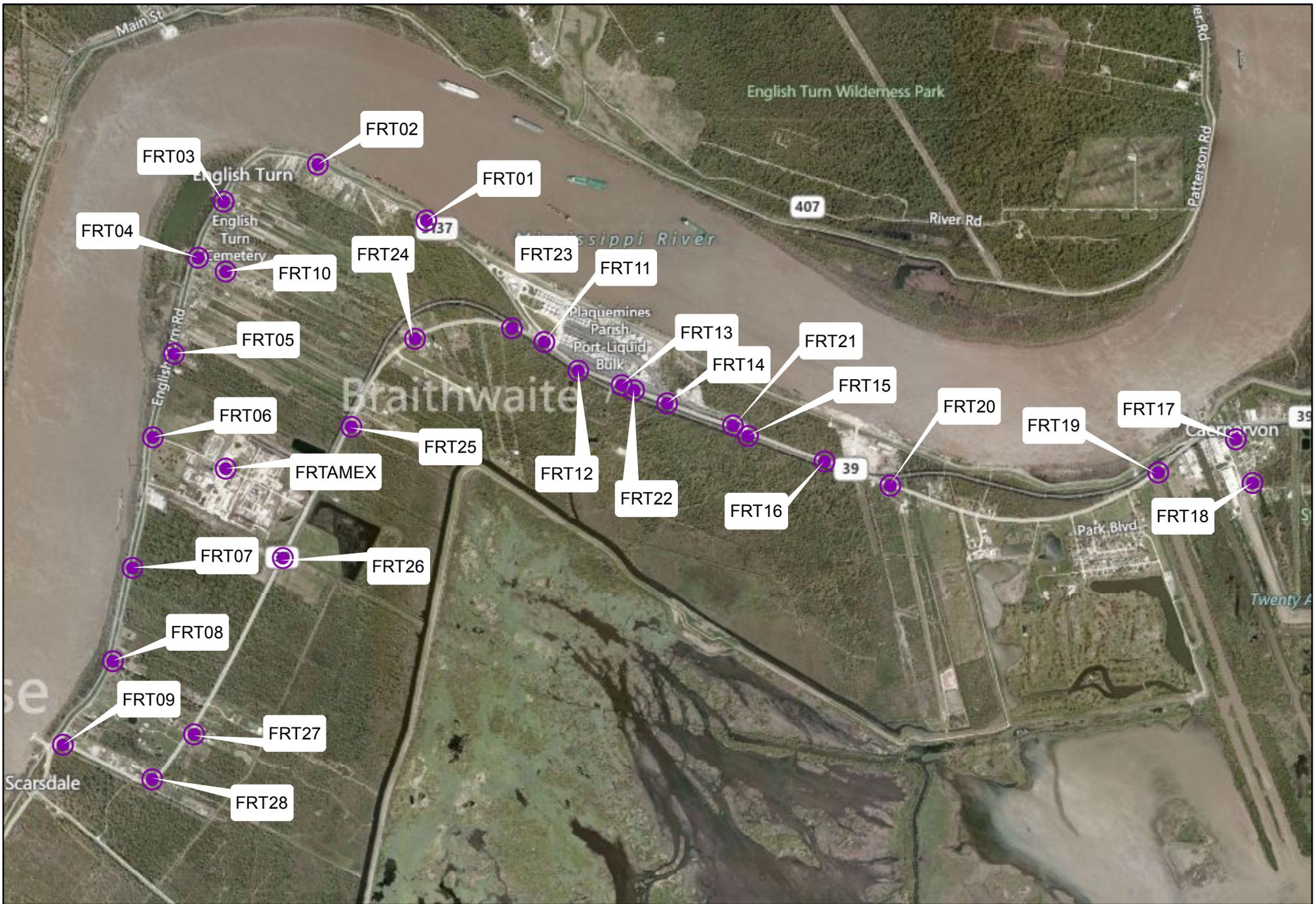


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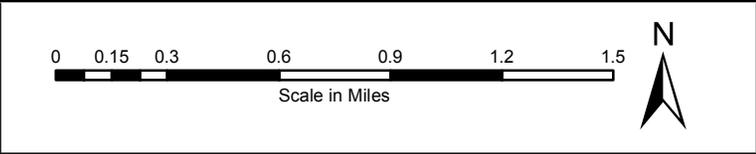
Project No.
40355

Garner Environmental
Braithwaite, LA

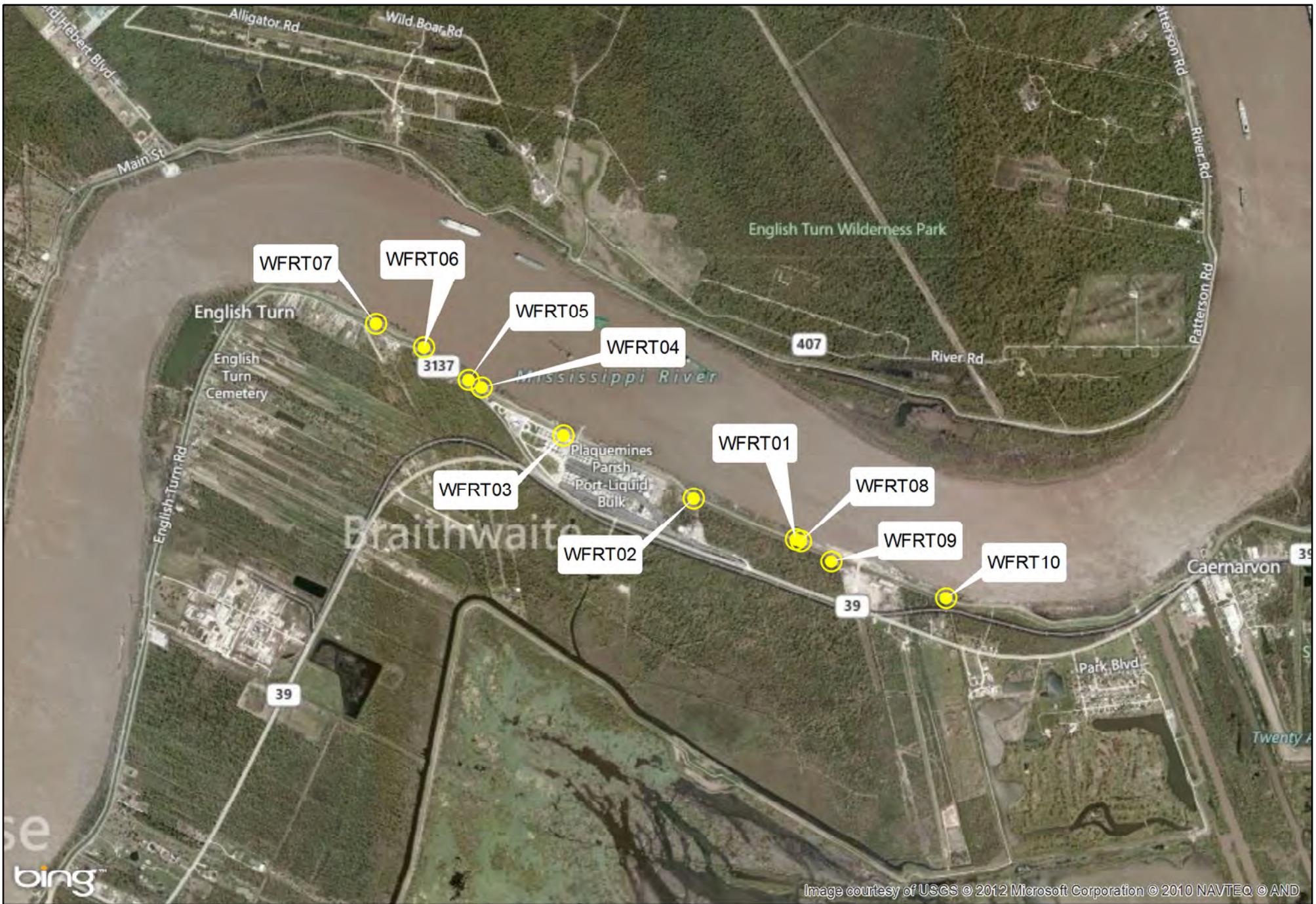
Plaquemines Parish
Print Date: 9/2/2012



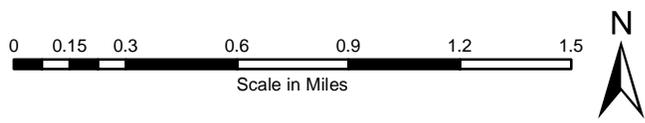
Community Fixed Real-Time Monitoring Locations



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Work Area Fixed Real-Time Monitoring Locations



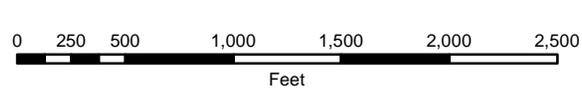
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Print Date: 9/8/2012	

Image courtesy of USGS © 2012 Microsoft Corporation © 2010 NAVTEQ © AND

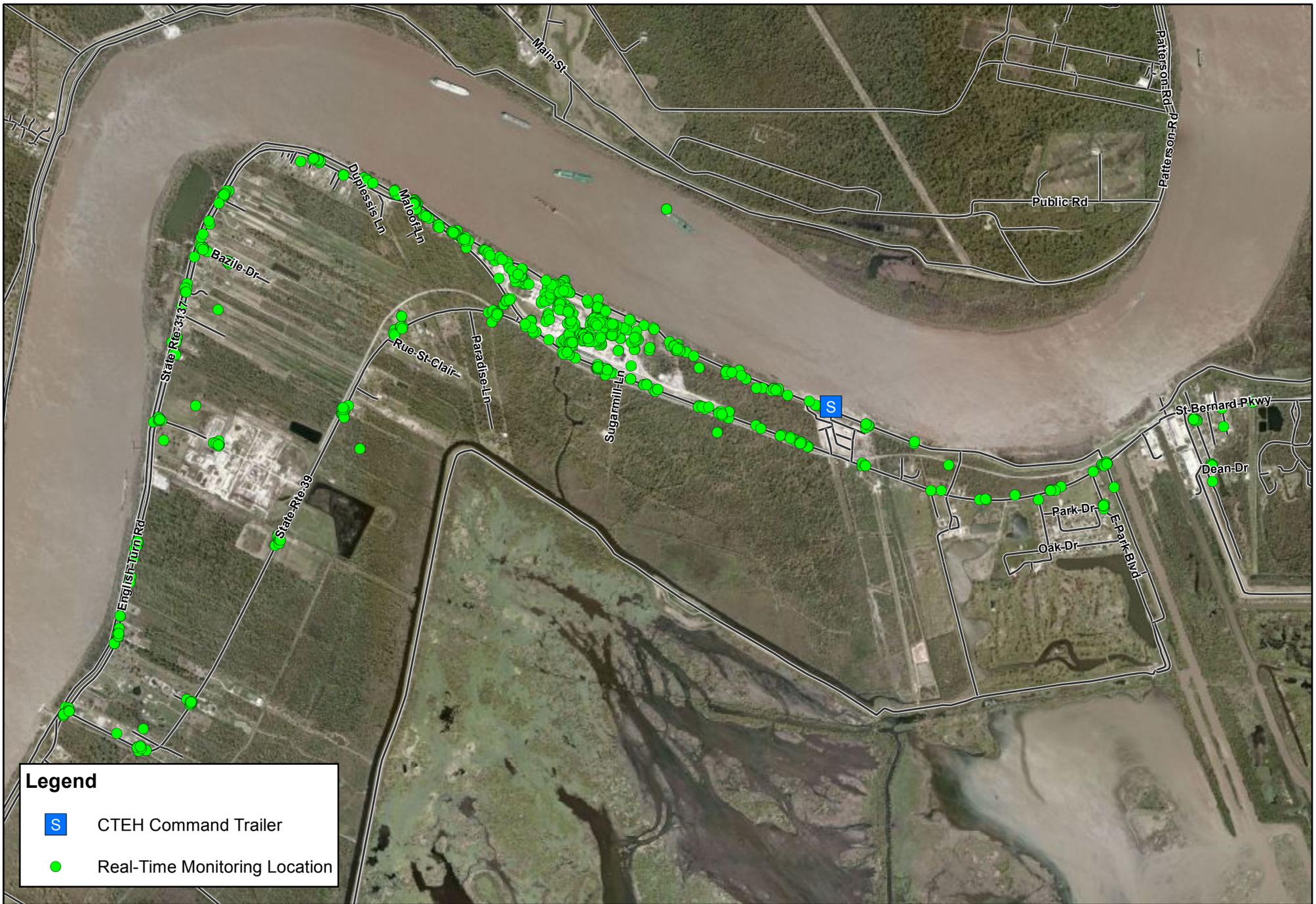


Legend
 AreaRAE Station

AreaRAE Station Locations
 September 09, 2012



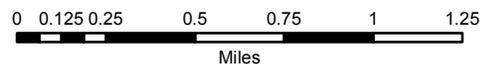
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	Braithwaite, LA
	Plaquemines Parish
Print Date: 9/9/2012	



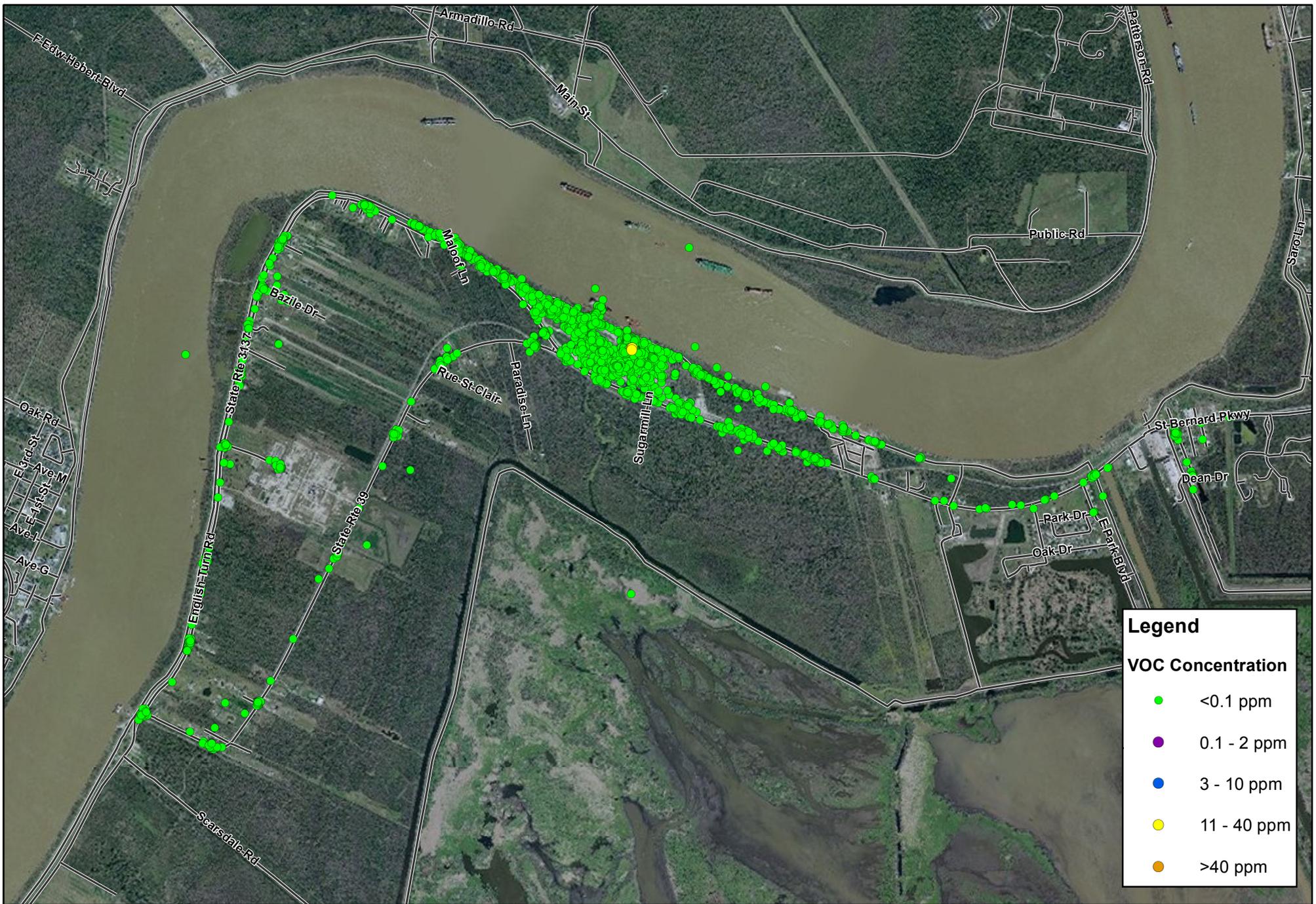
Legend

- S CTEH Command Trailer
- Real-Time Monitoring Location

Real-Time Monitoring Locations
 9/9/12 06:00 to 9/10/12 06:00



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Legend

VOC Concentration

- <0.1 ppm
- 0.1 - 2 ppm
- 3 - 10 ppm
- 11 - 40 ppm
- >40 ppm

**Manually-Logged
VOC Concentrations
9/9/12 06:00 to 9/10/12 06:00**



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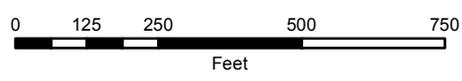


Legend

Methyl Acrylate Reading Location

- Detection
- No Detection

**Methyl Acrylate
Reading Locations**
9/09/12 06:00 to 9/10/12 06:00



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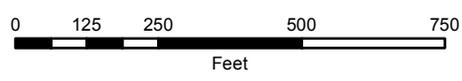


Legend

Styrene Reading Location

- Detection
- No Detection

**Styrene
Reading Locations**
9/09/12 06:00 to 9/10/12 06:00



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